EXHIBIT 3 Redacted Version of Document Sought to be Sealed

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1
                 IN THE UNITED STATES DISTRICT COURT
 2
              FOR THE NORTHERN DISTRICT OF CALIFORNIA
 3
                          SAN JOSE DIVISION
 4
                              ---000---
 5
     CHASOM BROWN, et al.,
     on behalf of themselves and )
     all others similarly
6
     situated,
 7
               Plaintiffs,
                                    )Case No.
                                    )5:20-cv-03664-LHK
8
     VS.
9
    GOOGLE LLC,
10
               Defendant.
11
12
13
                              ---000---
14
                   Videotaped Zoom Deposition of
15
                        DR. CAITLIN SADOWSKI
16
                            CONFIDENTIAL
                      Thursday, March 10, 2022
17
18
                              ---000---
19
20
21
22
23
    Katy E. Schmidt
    RPR, RMR, CRR, CSR 13096
24
25
    Veritext Job No.: 5130524
                                                Page 1
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1	MR. MCGEE: Actually, I'd like to go off the	03:56
2	record right now.	03:56
3	MR. ANSORGE: Okay. Let's go off the record.	03:56
4	THE VIDEOGRAPHER: We're now going off the	03:56
5	record. The time is 3:56 p.m.	03:56
6	(Break taken in proceedings.)	03:56
7	THE VIDEOGRAPHER: We are now back on the	04:15
8	record. The time is 4:15 p.m.	04:15
9	(Plaintiffs' Exhibit 2 was	04:15
10	marked for identification.)	04:15
11	BY MR. MCGEE:	04:15
12	Q. Dr. Sadowski, when we went off the record, we	04:15
13	were provided what I've marked as Exhibit 2.	04:15
14	Is that the document that you referenced was	04:15
15	the fax sheet?	04:15
16	A. I should look at the drive folder and see.	04:15
17	Okay. I see something called Exhibit 2. I am	04:16
18	opening it now.	04:16
19	Q. Great. Thank you.	04:16
20	A. Yes. This document is what I had referred to	04:16
21	as, I believe, reference sheet.	04:16
22	Q. Okay. And the third line it says "No fields	04:16
23	named" and in bold " or	04:16
24	• "	04:16
25	What is that reference, the "No fields named"?	04:16
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1	What does that mean?	04:16
2	A. I mentioned I use our internal code search	04:16
3	tool to look up these two field names, and they did not	04:16
4	appear.	04:16
5	Q. Okay. So it's your testimony that with the	04:16
6	internal code search tool, the	04:16
7	search term did not return any	04:17
8	results?	04:17
9	A. Yes. When I looked at when I did a search	04:17
10	for across	04:17
11	Google's multibillion line repository that I have access	04:17
12	to internally, I did not get any search results.	04:17
13	Q. Do you know what data sources that tool	04:17
14	searches over?	04:17
15	MR. ANSORGE: Objection. Vague and out of	04:17
16	scope.	04:17
17	BY MR. MCGEE:	04:17
18	Q. You can answer.	04:17
19	A. The code search tool searches over a	04:17
20	multibillion line code base. That's the main code base	04:17
21	that is used at Google.	04:17
22	Q. Okay. Let me ask it this way:	04:18
23	Are there any data sources that would not be	04:18
24	searched by that tool?	04:18
25	MR. ANSORGE: Objection. Vague.	04:18
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1	THE WITNESS: There are millions or billions	04:18
2	of data sources in the world. Many of them would not be	04:18
3	searched via that tool.	04:18
4	BY MR. MCGEE:	04:18
5	Q. Okay. Let me ask it this way:	04:18
6	Within Google, are there any data sources that	04:18
7	that tool would not search?	04:18
8	MR. ANSORGE: Objection. Vague, and out of	04:18
9	the scope.	04:18
10	THE WITNESS: Yes.	04:18
11	BY MR. MCGEE:	04:18
12	Q. What sources are those?	04:18
13	A. There are many. One example is the chromium	04:18
14	open source repository, which any anyone externally	04:18
15	can also search over.	04:19
16	Q. Okay. What other sources would it not search	04:19
17	within Google?	04:19
18	MR. ANSORGE: Same objection.	04:19
19	THE WITNESS: My e-mail.	04:19
20	BY MR. MCGEE:	04:19
21	Q. Okay.	04:19
22	A. As an example.	04:19
23	Q. What other data sources?	04:19
24	A. The	04:19
25	MR. ANSORGE: Same objection.	04:19
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1	THE WITNESS: e-mail of oh other	04:19
2	e-mails.	04:19
3	BY MR. MCGEE:	04:19
4	Q. What other data source would it not search	04:19
5	over?	04:19
6	A. Documents in a drive folder.	04:19
7	Q. Would it search all log files?	04:19
8	MR. ANSORGE: Objection. Vague, and out of	04:19
9	scope.	04:20
10	THE WITNESS: Code search does not search over	04:20
11	log files. Code search searches over source code.	04:20
12	BY MR. MCGEE:	04:20
13	Q. Okay. Would it search over proto files?	04:20
14	MR. ANSORGE: Objection. Vague.	04:20
15	THE WITNESS: It would search over proto	04:20
16	definitions.	04:20
17	BY MR. MCGEE:	04:20
18	Q. Would it search all available proto	04:20
19	definitions or is it a subset?	04:20
20	MR. ANSORGE: Objection. Calls objection.	04:20
21	Calls for speculation and out of scope.	04:20
22	THE WITNESS: It would search over all	04:20
23	proto definitions in Google's main repository.	04:20
24	BY MR. MCGEE:	04:20
25	Q. Okay. Let me ask it this way:	04:20
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1	If there was a field in a log file that had	04:21
2	but that same	04:21
3	did not have	04:21
4	a field or a proto definition, would your internal code	04:21
5	search tool return results for that search term?	04:21
6	MR. ANSORGE: Objection. Form, and incomplete	04:21
7	hypothetical.	04:21
8	THE WITNESS: I could create a proto field on	04:21
9	my local machine with any field names that I want, and	04:21
10	create a proto a proto file for testing with some	04:21
11	kind of or on the machine that I do work work at.	04:21
12	So you could create a specific proto with an arbitrary	04:21
13	name and log that specific proto.	04:22
14	BY MR. MCGEE:	04:22
15	Q. Okay. Let me ask you this:	04:22
16	Are all proto fields do they all have	04:22
17	descriptions at Google?	04:22
18	MR. ANSORGE: Objection. Vague and	04:22
19	foundation, and out of the scope.	04:22
20	THE WITNESS: I have not seen all proto fields	04:22
21	at Google.	04:22
22	BY MR. MCGEE:	04:22
23	Q. All right. Are there proto fields that you've	04:22
24	seen at Google that did not have descriptions?	04:22
25	A. Yes. But it also depends on what you mean by	04:22
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1	description. I am assuming that you are referring to a	04:22
2	code comment directly above the name of the field. I	04:23
3	have seen proto fields at Google that do not have a code	04:23
4	comment directly above the name of the field.	04:23
5	Q. Okay.	04:23
6	A. Typically in those cases the name of the field	04:23
7	is descriptive.	04:23
8	Q. So if	04:23
9	did not have what you just described, would it	04:23
10	still would your internal code search tool return any	04:23
11	results for it?	04:23
12	MR. ANSORGE: Objection. Form, and calls for	04:23
13	speculation, and out of scope.	04:23
14	THE WITNESS: If there was a proto field in	04:23
15	the main Google repository that had a particular name,	04:23
16	that field would be returned when searching for it,	04:23
17	regardless of whether there was a comment in the code	04:23
18	next to the field.	04:24
19	BY MR. MCGEE:	04:24
20	Q. Okay. Let me ask it more on a broad level.	04:24
21	Your search for the	04:24
22	with the internal code search tool,	04:24
23	you said it did not return any results.	04:24
24	Is that correct?	04:24
25	A. That is correct.	04:24
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1	Q. Are there any other ways that you could search	04:24
2	to see if the	04:24
3	search term exists within any exists at Google?	04:24
4	So just to give you an example, I understand	04:24
5	that you're saying that the internal code search tool is	04:24
6	limited in what it can return because of the limitations	04:24
7	that you just described.	04:24
8	Are there other ways to search for that	04:24
9	at Google?	04:25
10	MR. ANSORGE: Objection. Form. Compound.	04:25
11	And out of the scope.	04:25
12	THE WITNESS: I could there are always ways	04:25
13	to search for something. I could, for example, navigate	04:25
14	to a doc in my drive folder and search over that doc.	04:25
15	I could use public Google search and search for that	04:25
16	term for that string rather, just, you know, not	04:25
17	anything that's Google internal but something that's	04:25
18	visible equally outside of Google.	04:25
19	As I mentioned, there are other repositories,	04:25
20	like the chromium open source repository. There could	04:25
21	be other code or documents at Google that I do not have	04:25
22	access to. Over the main multibillion line repository,	04:25
23	I did not see a field with that name.	04:26
24	BY MR. MCGEE:	04:26
25	Q. Okay. For okay. What dashboards are	04:26
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1	going to	belabor the questions. They're the same. I	05:49
2	won't eve	n ask them to you.	05:49
3		So if you can turn to Exhibit 14, please.	05:49
4	Α.	I still see 12 as the top one so	05:49
5	Q.	Oh, okay.	05:49
6	Α.	Just a minute. I'm reloading.	05:49
7	Q.	Yeah. No problem.	05:49
8	Α.	Okay. I see something called Exhibit 14. I'm	05:50
9	opening i	t.	05:50
10		I see what appears to be a shorts design	05:50
11	document	that starts with	05:50
12			05:50
13	Q.	Have you ever seen this design document	05:50
14	before?		05:50
15	Α.	Yes.	05:50
16	Q.	When?	05:50
17	Α.	In preparation for this deposition.	05:50
18	Q.	Did you speak with anybody in preparation for	05:50
19	this depo	sition about this design document?	05:50
20	Α.	Yes.	05:50
21	Q.	Who, aside from your lawyers?	05:50
22	Α.	Quentin Fiard.	05:50
23	Q.	And what department is Quentin Fiard with in	05:50
24	Google?		05:51
25	Α.	I don't remember what he works on right now,	05:51
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1	but he used to work on in on at the	05:51
2	time this document was produced.	05:51
3	Q. Okay. And why did you choose to speak with	05:51
4	Quentin Fiard about this document?	05:51
5	A. From the comment threads in the document, it's	05:51
6	clear that he is the person who is most knowledgeable	05:51
7	about the document.	05:51
8	Q. Okay. Did you speak with anyone else whose	05:51
9	identity is reflected in this document?	05:51
10	MR. ANSORGE: Objection. Form, and vague.	05:51
11	THE WITNESS: In the comments I see a	05:51
12	selection of four different user names.	05:51
13	Are you asking about that set of four user	05:52
14	names?	05:52
15	MR. MCGEE: Yes.	05:52
16	THE WITNESS: Quentin Fiard I spoke to in	05:52
17	preparation for this deposition, and not previously.	05:52
18	The only other user name that I recognize is	05:52
19	msramek.	05:52
20	BY MR. MCGEE:	
21	Q. And who is that?	05:52
22	A. He has Chrome's privacy working group. We	05:52
23	have a close relationship because we take user privacy	05:52
24	very seriously, and we talk to the privacy working group	05:52
25	whenever there is anything that comes up related to	05:52
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1	privacy that we have questions about and to ensure that	05:52
2	we are upholding all the privacy policies that Google as	05:52
3	a company supports and that we want to be supporting as	05:52
4	a team.	05:53
5	Q. And what is that person's name?	05:53
6	A. Martin Sramek.	05:53
7	Q. Do you know how to spell Martin's last name?	05:53
8	A. I believe it is S-r-a-m-e-k. The same as in	05:53
9	this user name.	05:53
10	Q. Okay. And what is this design document? What	05:53
11	is it talking about?	05:53
12	MR. ANSORGE: Objection. Vague, and form.	05:53
13	THE WITNESS: Reading from the design	05:53
14	document:	05:53
15		05:53
16		05:53
17		05:53
18		05:53
19		05:53
20		05:53
21	Do you would you like me to keep reading?	05:54
22	MR. MCGEE: I thank you for pausing. I would	05:54
23	not like you to keep reading.	05:54
24	BY MR. MCGEE:	05:54
25	Q. Does this design document relate to any	05:54
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1	particular bit?	05:54
2	Well, let me back that up.	05:54
3	Are you familiar with something within Google	05:54
4	being described as a bit or a field?	05:54
5	MR. ANSORGE: Objection. Vague and compound.	05:54
6	THE WITNESS: Many things within Google are	05:54
7	described as a bit or a field, either colloquially or	05:54
8	exactly. At some level ultimately your computer is just	05:54
9	a sequence of bits.	05:54
10	MR. MCGEE: Right. Ones and zeros.	05:54
11	BY MR. MCGEE:	05:54
12	Q. But a field in a log, are you familiar with	05:54
13	that description or colloquialism at Google?	05:54
14	MR. ANSORGE: Objection. Vague, and out of	05:55
15	scope.	05:55
16	THE WITNESS: Yes.	05:55
17	BY MR. MCGEE:	05:55
18	Q. And does this design document relate to any	05:55
19	field or fields at Google?	05:55
20	A. Yes.	05:55
21	Q. Which?	05:55
22	A. I'm reading from my reference sheet to make	05:55
23	sure I get it right.	05:55
24	This design document is related to the	05:55
25		05:55
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1	mode.	05:55
2	Q. And how do you know that?	05:55
3	A. Because the source code for that particular	05:56
4	field, as you say, has a link to this design document	05:56
5	and says that it is annotation that it is	05:56
6	specifically limited to logs.	05:56
7	Q. And what is an log?	05:56
8	A. , is my	05:56
9	understanding.	05:56
10	Q. And are they keyed by any particular	05:56
11	identifiers?	05:56
12	MR. ANSORGE: Objection. Vague, and out of	05:56
13	the scope.	05:56
14	BY MR. MCGEE:	05:56
15	Q. You can answer.	05:56
16	A. There is a looking at my reference sheet,	05:57
17	there is a set of logs that is not GAIA keyed	05:57
18	and there are some logs that are	05:57
19		05:57
20	Q. Okay. And I see that from your reference	05:57
21	sheet.	05:57
22	When you say that the	05:57
23	is non-GAIA keyed,	05:57
24	what does that mean? How would you explain that?	05:57
25	A. Sorry. There was a beep when you were talking	05:57
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1	so I part of it cut off.	05:57
2	Q. Sure.	05:57
3	I'm asking let me mute my computer your	05:57
4	colleagues were e-mailing me.	05:57
5	The	05:57
6	, you said that it's not GAIA keyed.	05:57
7	What do you mean by that?	05:58
8	A. I did not say that	05:58
9	mode is	05:58
10	not GAIA keyed. You had asked about logs.	05:58
11	Q. Okay. Let me just then back it up.	05:58
12	On your information sheet, Notice 2, Topic 10,	05:58
13	there are there appear to be two field names or	05:58
14	let me back it up so we're speaking the same language.	05:58
15	What would you consider the	05:58
16	how	05:58
17	what how would someone at Google describe that? Is	05:58
18	it a field? Is it a field name? Is it a bit? I'm	05:59
19	trying to understand that. What's the jargon that	05:59
20	someone at Google would use to refer to those?	05:59
21	MR. ANSORGE: Objection. Compound.	05:59
22	THE WITNESS: I think there are many different	05:59
23	ways someone at Google might use to refer to those.	05:59
24	There is multiple jargon we could call it.	05:59
25	So I would say that	05:59
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1	mode is	05:59
2	a binary field that is specifically used only in temp	05:59
3	logs.	05:59
4	BY MR. MCGEE:	05:59
5	Q. And why is it only in temp logs?	05:59
6	A. It was a field that was created by the	06:00
7	team to help them understand potential problems with	06:00
8	their product location and where searching so that they	06:00
9	could develop the best product possible for Google	06:00
10	users.	06:00
11	Q. Okay. And it there's a note here that it	06:00
12	was introduced in 2017, but then the project wrapped up	06:00
13	in June of 2018.	06:00
14	Is that binary field still implemented at	06:00
15	Google?	06:00
16	MR. ANSORGE: Objection. Vague.	06:00
17	THE WITNESS: That binary field is still	06:00
18	exists as a binary field in and only in logs.	06:00
19	BY MR. MCGEE:	06:01
20	Q. Are values written to that binary field in	06:01
21	logs?	06:01
22	A. Yes. I believe values are written to that	06:01
23	binary field in logs.	06:01
24	Q. So even though the project wrapped in June of	06:01
25	2018, that is still an actively used binary field?	06:01
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1	MR. ANSORGE: Objection. Form.	06:01
2	THE WITNESS: As I understand it, it is not	06:01
3	actively used. It is still being written. It is not	06:01
4	being reviewed.	06:01
5	BY MR. MCGEE:	06:01
6	Q. Can you please clarify what you mean by "not	06:01
7	being reviewed"?	06:01
8	A.	06:02
9		06:02
10		06:02
11		06:02
12		06:02
13		06:02
14		06:02
15		06:02
16		06:02
17		06:02
18		06:02
19		06:02
20		06:02
21		06:03
22		06:03
23		06:03
24		06:03
25		06:03
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1		06:03
2		06:03
3	Q. But if they pulled up the graph, there would	06:03
4	be responsive data that would fill in the graph;	06:03
5	correct?	06:03
6	MR. ANSORGE: Objection. Vague, and calls for	06:03
7	a legal conclusion.	06:03
8	THE WITNESS: I don't know what you mean by	06:03
9	responsive data that would fill in the graph.	06:03
10	BY MR. MCGEE:	06:03
11	Q. Sure.	06:03
12	So you're saying they aren't looking at the	06:03
13	graph anymore. They're not reviewing it.	06:03
14	What I'm asking is: Is if they did pull up	06:04
15	the graph, the graph would still have lines or bars or	06:04
16	whatever visual representation or graphical	06:04
17	representation the graph was designed to display.	06:04
18	Is that fair?	06:04
19	MR. ANSORGE: Objection. Compound. Form.	06:04
20	THE WITNESS: My understanding is that	06:04
21		06:04
22	mode is a field that is being filled in in	06:04
23	not not in logs. It is not in	06:04
24	logs, to be clear. It is only in logs. And it	06:04
25	is a field that is still being filled in in logs	06:04
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1	today, despite the fact that the reason the field was	06:04
2	introduced has passed.	06:04
3	BY MR. MCGEE:	06:05
4	Q. Okay. And from your fact sheet, the	06:05
5		06:05
6	so without the underscore mode	06:05
7	THE COURT REPORTER: I'm so sorry, Counsel.	06:05
8	Can you start that question over? There was a little	06:05
9	bit of feedback. I didn't get it.	06:05
10	MR. MCGEE: Sure.	06:05
11	BY MR. MCGEE:	
12	Q. So the you've got two bullet points in your	06:05
13	fact sheet.	06:05
14	One is the	06:05
15	, no GAIA.	06:05
16	What does that mean?	06:05
17	A. What that means is that the these	06:05
18	logs that have this field set are not GAIA keyed.	06:05
19		06:05
20		06:06
21		06:06
22		06:06
23	Q. Got it.	06:06
24	A. And not notably not GAIA IDs.	06:06
25	Q. Understood.	06:06
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1	And then in	06:06
2	there are either	06:06
3	?	06:06
4	A. To be clear	06:06
5	MR. ANSORGE: Objection. Form.	06:06
6	THE WITNESS: There are not	06:06
7	inside	06:06
8	. I believe that is the name of a	06:06
9	field that is in the logs listed on this reference sheet	06:07
10	below. Those logs have a	06:07
11	in them, as well as this field.	06:07
12	BY MR. MCGEE:	06:07
13	Q. Do you know what other identifiers exist in	06:07
14	the GFS temp slash okay. Let me just I'm not even	06:07
15	going to read it out for you.	06:07
16	But what other identifiers exist in the first	06:07
17	sub-bullet point of the	06:07
18	list there?	06:07
19	MR. ANSORGE: Objection. Vague. Out of the	06:07
20	scope, and foundation.	06:07
21	THE WITNESS: I am not familiar with the full	06:07
22	set of things that is in this in that log. I can	06:07
23	tell you there is not an un-obfuscated GAIA ID. I can	06:08
24	also tell you that there is no direct mapping of this to	06:08
25	So there is no client ID or a way to somehow	06:08
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1	combine this with data.	06:08
2	MR. MCGEE: I think we've been going for about	06:08
3	40 minutes now. I just need to take a break so	06:08
4	MR. ANSORGE: Yeah. I'm fine with that.	06:08
5	Could we get a time count as well? How much	06:08
6	time is left on the record?	06:08
7	THE VIDEOGRAPHER: Yeah. So off the record?	06:08
8	MR. MCGEE: Yes. Off the record.	06:08
9	THE VIDEOGRAPHER: Okay. We're now going off	06:08
10	the record. The time is 6:08 p.m.	06:08
11	(Break taken in proceedings.)	06:17
12	THE VIDEOGRAPHER: We are now back on the	06:17
13	record. The time is 6:18 p.m.	06:17
14	BY MR. MCGEE:	06:18
15	Q. Dr. Sadowski, for the bits that we were or	06:18
16	excuse me the binary fields that we were just talking	06:18
17	about, the	06:18
18	mode,	06:18
19	, and	06:18
20	, do you know	06:18
21	what logic is being used to derive the values that are	06:18
22	stored in those binary fields?	06:18
23	MR. ANSORGE: Objection. Vague and compound.	06:18
24	THE WITNESS: I believe the	06:18
25	is referring	06:18
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1	to the same thing as	06:18
2	mode. I do know about	06:18
3	how that field is filled in.	06:19
4	BY MR. MCGEE:	06:19
5	Q. Okay. And what's the logic for filling in	06:19
6	that field?	06:19
7	A. It looks specifically at whether there is an	06:19
8	X-Client X hyphen Client hyphen Data header in the	06:19
9	request that is sent.	06:19
10	Q. Is there any other thing that it looks for or	06:19
11	is that all that it looks for?	06:19
12	A. I believe that is all that it looks for. The	06:19
13		06:19
14	mode is if there is a X-Client-Data	06:19
15	X-Client-Data header sent, then that is the logic used	06:20
16	to set that to true.	06:20
17	This is a proxy for incognito, but it is not	06:20
18	a what I would call a reliable or accurate way to	06:20
19	determine incognito usage.	06:20
20	Q. Okay. And what's the what types of traffic	06:20
21	is this logic being applied to? Is it mobile traffic?	06:20
22	Is it you know, is it platform specific?	06:20
23	MR. ANSORGE: Objection. Vague and compound.	06:20
24	THE WITNESS: It is in logs	06:21
25	. I believe it will be	06:21
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1 cross-platform, but I do not know for certain. I would 06: 2 have to investigate. 06: 3 BY MR. MCGEE:	21
3 BY MR. MCGEE:	
	21
	21
Q. Who would you speak with at Google to 06:	
5 investigate that? 06:	21
6 A. I would speak again with Quentin Fiard if I 06:	21
7 had a question about the this particular field in 06:	21
8 Oolong logs.	21
9 Q. Okay. And then I did this backwards but 06:	21
10 apologies. 06:	21
I can I've introduced two new exhibits. 06:	21
They're going to be 16 and 15.	22
13 (Plaintiffs' Exhibits 15 and 16 06:	22
were marked for identification.) 06:	22
BY MR. MCGEE: 06:	22
Q. But I'd actually like you to look at 16 first. 06:	22
A. 16 first? Okay. I'm waiting for it to load. 06:	22
18 Q. Thank you. 06:	22
19 A. One other thing to answer your question. 06:	22
To the best of my knowledge the 06:	22
field is derived from the 06:	22
22 06:	22
mode. It is still depending on X-Client-Data 06:	22
header logic and also looking at the user agent, but it 06:	22
is not derived through some other mechanism than 06:	22
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1	presence or absence of X-Client-Data header, and	06:23
2	suffers from the same limitations.	06:23
3	Q. So for the	06:23
4	, does that look you	06:23
5	mentioned user agent.	06:23
6	Does that one look at user agent?	06:23
7	A. To the best of my recollection, it does not.	06:23
8	It is looking at whether there is an X-Client-Data	06:23
9	header with the assumption that it would be coming from	06:23
10	Chrome if that header shows up. That assumption could	06:23
11	be false, but I would Chrome is the browser that use	06:23
12	that header.	06:23
13	Q. So then why does	06:23
14	look at a user agent in addition to	06:23
15	the X-Client-Data header?	06:24
16	MR. ANSORGE: Objection. Vague.	06:24
17	THE WITNESS: If you are looking at so if	06:24
18	you have an X-Client-Data header, that implies that it's	06:24
19	coming from Chrome. The absence of an X-Client-Data	06:24
20	header does not in some kind of data sense does not	06:24
21	have the same implication.	06:24
22	BY MR. MCGEE:	06:24
23	Q. Okay.	06:24
24	A. Should I look at Exhibit 16?	06:24
25	Q. Yes, please. Exhibit 16.	06:24
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1	Actually	06:24
2	A. There	06:25
3	Q I'm really sorry. Can you look at	06:25
4	Exhibit 15, please?	06:25
5	A. Okay. I see a document at the top in blue it	06:25
6	says "Document 338," and it starts with "In The	06:25
7	United States District Court For The Northern District	06:25
8	of California, San Jose Division."	06:25
9	Q. Have you ever seen this document before?	06:25
10	A. The preamble looks unfamiliar. I am scrolling	06:25
11	down.	06:25
12	This document looks unfamiliar.	06:26
13	Q. Okay. Do you know who Andre Goleuke is,	06:26
14	G-o-l-e-u-k-e? I apologize if I mispronounced that.	06:26
15	MR. ANSORGE: Objection. Out of the scope.	06:26
16	BY MR. MCGEE:	06:26
17	Q. You can answer.	06:26
18	A. No, I do not.	06:26
19	Q. Okay. If you'll turn to what was attached as	06:26
20	Exhibit A.	06:26
21	The logs you identified under "Fact Sheet,"	06:26
22	under "Notice 1, Topic 10," do any of those logs or data	06:26
23	sources appear in Exhibit A, whether directly or by any	06:26
24	other name?	06:27
25	MR. ANSORGE: Objection. Vague. Compound.	06:27
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1	Foundation, and out of the scope.	06:27
2	THE WITNESS: I do not see those the	06:27
3	those particular strings in this document. I am not	06:27
4	familiar with many of the names in this document or how	06:27
5	it was generated. I just saw it. So I cannot answer	06:27
6	the "by any other" name parts.	06:27
7	But this document I do not see the word	06:27
8	in this document, and the log sources you were	06:27
9	referencing were logs.	06:28
10	BY MR. MCGEE:	06:28
11	Q. Okay. So by way of example, if we go to the	06:28
12	sixth page of the document itself there's eight	06:28
13	pages there's a	06:28
14	That is there any possibility that the	06:28
15	first log source that's listed under the first bullet	06:28
16	point could be referred to as ?	06:28
17	MR. ANSORGE: Objection. Vague.	06:28
18	Mischaracterizes the evidence and foundation. And out	06:28
19	of scope.	06:28
20	BY MR. MCGEE:	06:28
21	Q. You can answer.	06:28
22	A. Your question was whether the specific strings	06:28
23	representing log sources listed in the reference sheet	06:29
24	would be referred to as?	06:29
25	Q. By way of example. Sure.	06:29
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1	A. I would be very surprised.	06:29
2	Q. Okay.	06:29
3	A. If someone referred to those as	06:29
4	I would expect someone to refer to them as logs	06:29
5	or have the word in the name. That is the name	06:29
6	used to refer to logs for that particular product and	06:29
7	they are only for .	06:29
8	Q. Okay. And if I can draw your attention to	06:29
9	Exhibit 16.	06:29
10	A. But I'm not going to speculate what other	06:29
11	people could refer to something as. I would refer to	06:30
12	them as logs, and would generally expect that	06:30
13	people would refer to them as logs or with the	06:30
14	word in the name.	06:30
15	I have a document that says "Contains	06:30
16	Information Designated 'Highly Confidential Attorneys'	06:30
17	Eyes Only'" as the in quotes as the top line and then	06:30
18	a lot of names.	06:30
19	Q. Okay. And I'm presenting it to you. There's	06:30
20	a lot of instructions. But on the sixth page of the	06:30
21	document, and it is a "6" at the bottom, there's a	06:30
22	topic. And I'd represent that this is the topic that	06:30
23	you were designated for but I don't believe	06:30
24	And there's a carve-out, and Mr. Ansorge or	06:30
25	excuse me Dr. Ansorge will describe the carve-out.	06:30
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1	But that you've been partially designated to	06:30
2	testify on this topic.	06:31
3	And I apologize, the lights in my office went	06:31
4	out.	06:31
5	MR. ANSORGE: Dr. Sadowski is designated for	06:31
6	the field, for	06:31
7	the field,	06:31
8	and for the	06:31
9	field. She's not designated for the	06:31
10	field, nor for anything else	06:31
11	that's covered by this topic, and all the questions that	06:31
12	relate to field or dashboard	06:31
13	fields on that are out of the scope.	06:31
14	MR. MCGEE: Okay. But to be clear, Mr	06:31
15	Dr I it's late.	06:31
16	Dr. Ansorge, it's part of the topic	06:31
17	includes why Google developed, implemented, and used any	06:31
18	such bit or field. Also includes the log or traffic	06:31
19	sources, as well as the design used to determine the bit	06:32
20	or field, as well as any logs or data sources where such	06:32
21	a bit or field is used and how it is used.	06:32
22	So I understand she's not designated for	06:32
23	, but for	06:32
24	the other three, you're not limiting her testimony based	06:32
25	on the further clarification of the topic, are you?	06:32
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1	MR. ANSORGE: For the other three, she's	06:32
2	already testified as to the development, the	06:32
3	implementation, the use of bits and fields. We've gone	06:32
4	over those.	06:32
5	MR. MCGEE: Understood. Just making sure	06:32
6	we're clear.	06:32
7	I see. Okay.	06:33
8	And okay. I see what you're saying.	06:33
9	So Notice 2, Topic 10 has overlap with	06:33
10	Notice 4, Topic 1, is what you're saying, Dr. Ansorge?	06:33
11	MR. ANSORGE: I'm not sure it's Notice 4,	06:33
12	Topic 1, that that's a specific exhibit you're referring	06:33
13	to.	06:33
14	MR. MCGEE: Exhibit 16. Sure.	06:33
15	MR. ANSORGE: Dr. Sadowski already testified	06:33
16	as to each of those three fields.	06:33
17	MR. MCGEE: Right.	06:33
18	BY MR. MCGEE:	06:33
19	Q. So, Dr. Sadowski, I understand that in the	06:33
20	beginning we spoke about this, but the you used an	06:33
21	internal code search tool to look for	06:33
22	. That returned no results	06:33
23	but that tool did not search all data sources for	06:34
24	Google; correct?	06:34
25	MR. ANSORGE: Objection. Mischaracterizes	06:34
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1	prior testimony.	06:34
2	THE WITNESS: I searched on our internal code	06:34
3	search tool over the multibillion line repository that	06:34
4	is viewable to me internally, and did not see that field	06:34
5	in the history of the repository.	06:34
6	BY MR. MCGEE:	06:34
7	Q. Okay. And then the same thing for	06:34
8	?	06:34
9	A. If you search for	06:34
10	in the internal code search	06:34
11	and browsing tool over the multibillion line repository	06:34
12	that's visible to me, when I did that, I got hits for	06:35
13		06:35
14	mode.	06:35
15	Q. Okay. Did you do any other searches for	06:35
16	fields or bits that would contain the term "incognito"?	06:35
17	A. No.	06:35
18	MR. ANSORGE: Objection. Vague.	06:35
19	BY MR. MCGEE:	06:35
20	Q. Did you do any other research or speak with	06:35
21	anyone at Google to determine whether any such fields	06:35
22	were developed whose function was intended to detect	06:35
23	incognito usage?	06:35
24	MR. ANSORGE: Objection. Vague and out of	06:35
25	the scope.	06:35
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1	THE WITNESS: The only accurate way I know	06:36
2	about to report incognito usage statistics is through	06:36
3	because is so privacy preserving that we can	06:36
4	report statistics about incognito usage. We do not have	06:36
5	other ways that we generate statistics accurate	06:36
6	statistics about incognito usage.	06:36
7	BY MR. MCGEE:	04:15
8	Q. Right.	04:15
9	A. There is one proxy, this using the	06:36
10	X-Client-Data header that's we have talked about the	06:36
11	team used, but that is I would not	06:36
12	characterize that as a reliable way to look at	06:36
13	incognito usage statistics.	06:36
14	If someone asked me how to look at incognito	06:36
15	usage statistics, I would say the ways through and	06:36
16	the metrics are visible in the external open source	06:36
17	chromium repository for full transparency.	06:37
18	Q. Okay. And did you do any further research to	06:37
19	see if any other fields can ever containing the word	06:37
20	"incognito" were implemented by Google, aside from the	06:37
21	four that are in this document and that you've	06:37
22	previously described?	06:37
23	MR. ANSORGE: Objection. Vague, and out of	06:37
24	the scope.	06:37
25	THE WITNESS: I did not do research on whether	06:37
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1	there are fields in some protocol buffer at Google that	06:37
2	use the word "incognito." That is an English word that	06:37
3	could have multiple meanings and could be used in	06:37
4	arbitrary ways by arbitrary people at Google.	06:37
5	BY MR. MCGEE:	06:37
6	Q. Okay. And did you do any research to see if	06:38
7	any such bit or field containing the word "incognito" is	06:38
8	being used at Google, other than what you've testified	06:38
9	to today?	06:38
10	MR. ANSORGE: Objection. Out of the scope.	06:38
11	Form. And asked and answered.	06:38
12	THE WITNESS: I believe I already answered	06:38
13	that. I did not do extra research about fields in	06:38
14	protocol buffers related to incognito beyond what we	06:38
15	have talked about today.	06:38
16	BY MR. MCGEE:	06:38
17	Q. Okay. Who at Google is responsible for	06:38
18	maintaining the dashboards?	06:38
19	MR. ANSORGE: Objection. Vague, and out of	06:38
20	scope.	06:38
21	THE WITNESS: My team.	06:38
22	BY MR. MCGEE:	06:39
23	Q. I'm sorry. You said your team?	06:39
24	A. My I manage the Chrome metrics team which	06:39
25	owns infrastructure, including the dashboards.	06:39
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1	Q. Okay. And who are those dashboards accessible	06:39
2	by at Google?	06:39
3	MR. ANSORGE: Objection. Vague.	06:39
4	THE WITNESS: The dashboards are generally	06:39
5	available to engineers at Google. Generally viewable by	06:39
6	engineers at Google.	06:39
7	BY MR. MCGEE:	
8	Q. For the going back to Exhibit No. 2, your	06:40
9	fact sheet, how did you determine for the Zwieback	06:40
10	logs how did you determine that those were the	06:40
11	responsive logs that contain that binary field?	06:40
12	A. What do you mean by Zwieback logs? Zwieback	06:40
13	is a type of ID, not a type of log.	06:40
14	Q. Right.	06:40
15	The	06:40
16	and that it would and	06:40
17	then you list logs; right?	06:41
18	How did you determine a how was that list	06:41
19	created? How were those logs identified?	06:41
20	A. By asking Quentin Fiard.	06:41
21	If you're asking where did these bullet points	06:41
22	come from, he's the person that I talked to that knows	06:41
23	about logs.	06:41
24	Q. Okay. And did he explain how he populated	06:41
25	that list?	06:41
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1	MR. ANSORGE: Objection. Vague.	06:41
2	THE WITNESS: Populated what list?	06:42
3	BY MR. MCGEE:	06:42
4	Q. The log sources that are on that list, did	06:42
5	he explain how he identified those? Or did you just	06:42
6	take his word for it?	06:42
7	MR. ANSORGE: Objection. Compound, and	06:42
8	argumentative.	06:42
9	THE WITNESS: I asked him about the what	06:42
10	logs were stored in and what their retention	06:42
11	periods were, and he came back with this list.	06:42
12	BY MR. MCGEE:	06:42
13	Q. When you did the internal code search for all	06:43
14	of these binary fields that we've identified in both	06:43
15	Notice 2, Topic 10, and then the other notice, did you	06:43
16	save the results of your queries?	06:43
17	A. No.	06:43
18	Q. Why not?	06:43
19	A. Because the way code search works, you search	06:43
20	for something, similar to Google search, you don't save	06:43
21	the results of your search if you are just looking up	06:43
22	a a stat like if you're looking if for definition	06:43
23	of a word or doing some math.	06:43
24	Q. But I can .pdf the results of a Google search;	06:43
25	right?	06:43
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1	MR. ANSORGE: Objection. Form, and out of the	06:43
2	scope.	06:44
3	THE WITNESS: When developers look at or	06:44
4	browse source code, they use the code search tool. They	06:44
5	do not save a copy of that tool on the side. That is an	06:44
6	internally available code search tool. You generally	06:44
7	shouldn't print out or save any kind of source code on	06:44
8	your local machine.	06:44
9	So the way that you would view source code is	06:44
10	through the code search tool. You don't save a copy of	06:44
11	your results. You search for results afresh if you want	06:44
12	to see them again.	06:44
13	BY MR. MCGEE:	06:44
14	Q. Okay. When you did you use the internal	06:44
15	code search tool to search for the	06:44
16	?	06:45
17	A. I looked up	06:45
18	,	06:45
19	and	06:45
20	mode, and that returns the same	06:45
21	set of results as	06:45
22		06:45
23	Q. Okay. But sorry. To be clear, did you run	06:46
24	through the	06:46
25	internal code search tool?	06:46
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1	A. No.	06:46
2	Q. But you did run the other one. And is that	06:46
3	how the list of log sources was populated in this	06:46
4	Exhibit 2 for Notice 2, Topic 10?	06:46
5	A. The way that the	06:46
6	MR. ANSORGE: Objection. Vague.	06:46
7	THE WITNESS: The list the bulleted list in	06:46
8	Notice 2, Topic 10 were populated by Quentin Fiard.	06:46
9	BY MR. MCGEE:	
10	Q. Okay. But when you ran the	06:46
11	when you ran you	06:46
12	did let me ask it this way:	06:47
13	You did a lot of or you did a few internal	06:47
14	code search queries; right?	06:47
15	A. Yes.	06:47
16	I would also like to note that in the course	06:47
17	of my job, I frequently run internal code search	06:47
18	queries.	06:47
19	Q. Okay.	06:47
20	A. I did a couple code search queries in	06:47
21	preparation for this case, either yesterday or this	06:47
22	morning. It has blended together and I'm not sure	06:47
23	which. But I make queries in code search in the normal	06:47
24	course of my job.	06:47
25	Q. Okay. And one of those queries returned	06:48
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1	results; right?	06:48
2	A. Yes. If you search for	06:48
3	, that substring is part of a	06:48
4	name of a Boolean field in logs that I have	06:48
5	already testified about. And that binary field is using	06:48
6	X-Client-Data header information to proxy incognito	06:48
7	states. It is not an accurate name for the binary	06:48
8	field, and it is not used in logs.	06:49
9	Q. Okay. I think I am very close. Just want	06:49
10	to make sure.	06:49
11	Does the	06:49
12	mode bit exist in	06:49
13	non-logs?	06:49
14	A. To the best of my knowledge, that is the only	06:49
15	place it exists. If you this particular binary field	06:49
16	was developed with in as part of the design doc	06:50
17	that we reviewed earlier so that the team could	06:50
18	look at how often they don't get a location header when	06:50
19	they're expecting to get a location header using the	06:50
20	presence or using the presence of the X-Client	06:50
21	presence or absence of the X-Client-Data header as a	06:50
22	proxy here for situations when you would or wouldn't	06:50
23	expect to get a location header.	06:50
24	Q. I understand that.	06:50
25	A. And that is the only way it is being used, to	06:50
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1	my knowledge.	06:50
2	Q. And what is the basis of your knowledge for	06:50
3	what's the basis of your knowledge for that conclusion?	06:50
4	A. A few different things.	06:51
5	Talking to Quentin Fiard who was involved in	06:51
6	actually implementing this field.	06:51
7	Looking in code search, including historical	06:51
8	code search, for where this field is set and used.	06:51
9	And also if you look in the protocol buffer	06:51
10	that has this field, there is an annotation saying that	06:51
11	it is specifically only used in logs.	06:51
12	And that there's also a comment that links to	06:51
13	the design doc that we talked about earlier that is	06:51
14	related to this field.	06:51
15	Q. And that comment is on an internal document at	06:51
16	Google?	06:51
17	A. It is a source code comment.	06:51
18	Q. Okay.	06:52
19	A. Not a document comment. And it is a comment	06:52
20	directly above the definition of this field.	06:52
21	MR. MCGEE: Okay. I don't have any further	06:52
22	questions.	06:52
23	Thank you.	06:52
24	MR. ANSORGE: We'd like to take a break to see	06:52
25	if we have any questions.	06:52
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MR. MCGEE: As long as you need. We can go off. MR. ANSORGE: All right. We'll go off the of:53 record. THE VIDEOGRAPHER: We are now going off the of:53 record. The time is 6:53 p.m. (Break taken in proceedings.) THE VIDEOGRAPHER: We are now back on the of:53 THE VIDEOGRAPHER: We are now back on the of:53 THE VIDEOGRAPHER: We are now back on the of:53 THE VIDEOGRAPHER: We are now back on the of:01 record. The time is 7:01 p.m. of:01 MR. ANSORGE: Dr. Sadowski, thank you for your patience and grace today. No questions from us. We're patience and grace today. No questions from us. We're of:01 MR. MCGEE: Yeah. We can go off. But before of:01 we go off, I guess I would like to note Google has continued production of documents after the March 4th of:01 deadline for document production, so I won't be closing of:01 this deposition. But we can argue about that, of:02 MR. ANSORGE: Yeah. We can let Dr. Sadowski of:02	
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get to her kids and we can argue about that, you know, 07:02	
before and after our further brush of meet and confers. 07:02	
24 MR. MCGEE: Yeah. 07:02	
MR. ANSORGE: Okay. So with that, we can go 07:02	
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1	off the record.	07:02
2	MR. MCGEE: Yes.	07:02
3	THE VIDEOGRAPHER: Conclusion of depo?	07:02
4	We are now going off the record. The time is	07:02
5	7:02 p.m. and this concludes today's testimony given by	07:02
6	Caitlin Sadowski. The total number of media units used	07:02
7	was seven, and will be retained by Veritext Legal	07:02
8	Solutions.	07:02
9	(Whereupon, the deposition adjourned at 7:02 p.m.)	
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